



ENFORCER Products
 A Division of Acuity Specialty Products
 Group, Inc.
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Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name Driveway & Concrete Cleaner Concentrate
Product Code HDBMC128 CNBMC128
Date of issue 12/17/04 **Supersedes** 04/11/03

Emergency Telephone Numbers **For a Medical Emergency:**
 INFOTRAC
 (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:
 CHEMTREC
 (800) 424-9300 (Toll Free - Calls Recorded)

Printing Date:

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 10	ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s).
SODIUM HYDROXIDE; caustic soda; soda lye	1310-73-2	1 - 5	ACGIH / OSHA (United States). CEIL: 2 mg/m ³
POTASSIUM HYDROXIDE; caustic potash; lye	1310-58-3	1 - 5	ACGIH / OSHA (United States). CEIL: 2 mg/m ³

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.
Skin Hazardous in case of skin contact (corrosive, permeator). Harmful if absorbed through the skin. Skin contact may produce burns. Skin contact can produce inflammation and blistering.
Eyes Hazardous in case of eye contact (corrosive). Direct contact with the eyes can cause irreversible damage including blindness.
Inhalation Hazardous in case of inhalation. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.
Ingestion May be fatal if swallowed. May cause burns to mouth, throat, and stomach.

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects The substance may be toxic to blood, kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS). Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

See Toxicological Information (section 11)

HMIS	
Health	3
Fire Hazard	0
Reactivity	0
Personal Protection	D

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits	Not applicable.
Flammability	Non-flammable.		
Fire Hazard	Not applicable.		
Fire-Fighting Procedures	Use an extinguishing agent suitable for surrounding fires.		

**Section 6. Accidental Release Measures**

Spill Clean up	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
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Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Do not reuse product container. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection**

Eyes	Chemical splash goggles.
Body	Wear appropriate protective clothing to prevent skin contact. Rubber gloves. Nitrile gloves. Synthetic apron.
Respiratory	A respirator is not needed under normal and intended conditions of product use.

Protective Clothing (Pictograms)**Section 9. Physical and Chemical Properties**

Physical State	Liquid.	Color	Clear. Yellow.
pH	13.0 - 14.0	Odor	Characteristic.
Boiling Point	98.9°C (210°F)	Vapor Pressure	Not determined.
Specific Gravity	1.06 (Water = 1)	Vapor Density	Not determined.
Solubility	Easily soluble in cold water, hot water.	Evaporation Rate	>1 compared to Butyl acetate.
		VOC (Consumer)	52.91 (g/l). 0.44lbs/gal 5.00%

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Slightly reactive to reactive with oxidizing agents, acids.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	These products are carbon oxides (CO, CO ₂).

Section 11. Toxicological Information

Toxicity to Animals	Ethylene Glycol Monobutyl Ether:
	ORAL (LD50): Acute: 1746 mg/kg [Rat].
	DERMAL (LD50): Acute: 680 mg/kg [Rabbit].
	VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat (Female)].
	Sodium Hydroxide:
	ORAL (LD50): Acute: 500 mg/kg [Rat].
	DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].
	Potassium Hydroxide:
	ORAL (LD50): Acute: 365 mg/kg [Rat].

Section 12. Ecological Information**Ecotoxicity** Not available.**Biodegradable/OECD** Not available.**Section 13. Disposal Considerations****Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations.**Waste Stream** Code: D002
Classification: Hazardous (Corrosivity)
Origin: RCRA

Consult your local or regional authorities.

Section 14. Transport Information**Proper shipping name** Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide) or Consumer Commodity ORM-D in Limited Quantities**DOT Classification** Class 8: Corrosive liquid.**UN number** UN3266**TDG Classification** TDG Class 8: Corrosive liquid.**Section 15. Regulatory Information****U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting:

Ethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 311: Sodium Hydroxide (1,000 lbs RQ), Potassium Hydroxide (1,000 lbs RQ)

Clean air act (CAA) 112 regulated toxic substances: Ethylene Glycol Monobutyl Ether

State Regulations California prop. 65: No products were found.**WHMIS (Canada)** Class D-1B: Material causing immediate and serious toxic effects (TOXIC).

Class D-2B: Material causing other toxic effects (TOXIC).

Class E: Corrosive liquid.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.